

# Recombinant Human Sulfotransferase 1A3,1A4(SULT1A3)

Catalog No: #AP70817

Package Size: #AP70817-1 20ug #AP70817-2 100ug #AP70817-3 1mg

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## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Product Name          | Recombinant Human Sulfotransferase 1A3,1A4(SULT1A3)                                                                                                                                                                                                                                                                                                                                                    |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen Description | Expression Region:1-295aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                                     |
| Other Names           | <p>Aryl sulfotransferase 1A3,1A4</p> <p>Catecholamine-sulfating phenol sulfotransferase</p> <p>HAST3</p> <p>M-PST</p> <p>Monoamine-sulfating phenol sulfotransferase</p> <p>Placental estrogen sulfotransferase</p> <p>Sulfotransferase 1A3,1A4</p> <p>Sulfotransferase, monoamine-preferring</p> <p>Thermolabile phenol sulfotransferase</p> <p>Short name:</p> <p>TL-PST</p>                         |
| Accession No.         | P0DMM9                                                                                                                                                                                                                                                                                                                                                                                                 |
| Calculated MW         | 50.2 kDa                                                                                                                                                                                                                                                                                                                                                                                               |
| Tag Info              | N-terminal 6xHis-SUMO-tagged                                                                                                                                                                                                                                                                                                                                                                           |
| Target Sequence       | <p>MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLINTYPKSGTTWVSQILDMIYQGGDLEKCNRAPI</p> <p>YVRVPFLEVNDPGEPSGLETCLKDTPPPRLIKSHLPLALLPQTLLDQKVKVVYVARNPKDVAVSYYHFRMEKA</p> <p>HPEPGTWDSFLEKFMAGEVSYGSWYQHVQEWWELSRTHPVLVLFYEDMKENPKREIQKILEFVGRSLPEET</p> <p>MDFMVQHTSFKEMKKNPMTNYTTVPQELMDHSISPFMRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSL</p> <p>SFRSEL</p>                                                          |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                          |
| Storage               | <p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.</p> <p>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.</p> |

## Background

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of phenolic monoamines (neurotransmitters such as dopamine, norepinephrine and serotonin) and phenolic and catechol drugs

## References

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"Human SULT1A3 pharmacogenetics: gene duplication and functional genomic studies."Hildebrandt M.A.T., Salavaggione O.E., Martin Y.N., Flynn H.C., Jalal S., Wieben E.D., Weinshilboum R.M.Biochem. Biophys. Res. Commun. 321:870-878(2004)Research Topic:Neuroscience

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.