

# Recombinant human Transmembrane prolyl 4-hydroxylase

Catalog No: #AP71573

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

Package Size: #AP71573-1 20ug #AP71573-2 100ug #AP71573-3 1mg

## Description

Product Name	Recombinant human Transmembrane prolyl 4-hydroxylase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:82-563aaSequence Info:Full Length of Isoform 3
Other Names	Hypoxia-inducible factor prolyl hydroxylase 4 ;HIF-PH4 ;HIF-prolyl hydroxylase 4 ;HPH-4
Accession No.	Q9NXG6
Uniprot	Q9NXG6
GeneID	54681;
Calculated MW	70.5 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	VHYSNGDESSDPGPQHRAQGGPEPTLGLPLTRLEGIKVGHHERKVQLVTDRDHFIRTLSLKPLLFEIPGFLTDEE CRLIIHLAQMKGQLQRSQILPTEEYEEAMSTMQVSQLDLFRLLDQNRDGHLLQLREVLAQTRLGNGWWMTPESI QEMYAAIKADPDGDGVLSQLQEFNSMDLRDFHKYMRSHKAESSELVRNSHHTWLYQGEGAHHIMRAIRQRVL RLTRLSPEIVELSEPLQVVRYGEGGHYHAHVDSGVPVYPETICSHTKLVANESVPFETSCRQVSPNWGLPSILR PGTPMTQAQPCTVGVPLGMGPGDHWVIPVSPWEHPQLGTCSVPLPYSYMTVLFYLNNVTGGGETVFPVAD NRTYDEMSLIQDDVLDLRDTRRHCDKGNLRVKKPQQGTAVFWYNYLPDGGQWVGDDVDSLHGGCLVTRGTK WIANNWINVDPSRARQALFQQEMARLAREGGTDSQPEWALDRAYRDARVEL
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  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.

## Background

Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF1A at 'Pro-402' and 'Pro-564'. May function as a cellular oxygen sensor and, under normoxic conditions, may target HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex.

## References

An endoplasmic reticulum transmembrane prolyl 4-hydroxylase is induced by hypoxia and acts on hypoxia-inducible factor alpha.Koivunen P., Tiainen P., Hyvaerinen J., Williams K.E., Sormunen R., Klaus S.J., Kivirikko K.I., Myllyharju J.J. Biol. Chem. 282:30544-30552(2007)Research Topic:Cancer

---

Note: This product is for in vitro research use only