

Recombinant Escherichia coli Beta-lactamase TEM

Catalog No: #AP72948



Package Size: #AP72948-1 20ug #AP72948-2 100ug #AP72948-3 1mg

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Escherichia coli Beta-lactamase TEM
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:24-286aaSequence Info:Full Length
Other Names	IRT-4PenicillinaseTEM-1TEM-16,CAZ-7TEM-2TEM-24,CAZ-6TEM-3TEM-4TEM-5TEM-6TEM-8,CAZ-2
Accession No.	P62593
Uniprot	P62593
GeneID	10076131;10076142;13876868;13877052;13903673;13905334;13905363;13906404;13906709;13906924;13909533;13909568;14612524;17824300;17824435;18157686;20466965;20466993;20467118;20468340;20471961;20491414;20491639;20492529;20492626;20493584;2716540;3244915;37224
Calculated MW	30.9 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	HPETLVKVKDAEDQLGARVGYIELDLNSGKILESFRPEERFPMMSSTFKVLLCGAVLSRVLDAGQEQLGRRIHYSQNDLVEYSPVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAFLHNMGDHVTRLDRWEPELNEAIPNDERDTTTPAAMATTLRKLTTGELLTLASRQQLIDWMEADKVVAGPLLRSAIPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERNRQIAEIGASLIKHW
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

T-type are the most prevalent beta-lactamases in enterobacteria; they hydrolyze the beta-lactam bond in susceptible beta-lactam antibiotics, thus conferring resistance to penicillins and cephalosporins. T-3 and T-4 are capable of hydrolyzing cefotaxime and ceftazidime. T-5 is capable of hydrolyzing ceftazidime. T-6 is capable of hydrolyzing ceftazidime and aztreonam. T-8,CAZ-2, T-16,CAZ-7 and T-24,CAZ-6 are markedly active against ceftazidime. IRT-4 shows resistance to beta-lactamase inhibitors.

References

A potent new mode of beta-lactamase inhibition revealed by the 1.7 Å X-ray crystallographic structure of the TEM-1-BLIP complex. Strynadka N.C.J., Jensen S.E., Alzari P.M., James M.N.G. Nat. Struct. Biol. 3:290-297(1996) Research Topic: Others

Note: This product is for in vitro research use only