

Recombinant Rattus norvegicus Regucalcin

Catalog No: #AP72757

Package Size: #AP72757-1 20ug #AP72757-2 100ug #AP72757-3 1mg

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Description

Product Name	Recombinant Rattus norvegicus Regucalcin
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-299aaSequence Info:Full Length
Other Names	Gluconolactonase (EC:3.1.1.17) Short name: GNL Senescence marker protein 30 Short name: SMP-30
Accession No.	Q03336
Uniprot	Q03336
GeneID	25106;
Calculated MW	35.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MSSIKIECVLRENYRCGESPWEEASKLLFVDIPSKTVCRWDSISNRVQRVGDAPVSSVALRQSGGYVATI GTKFCALNWEDQSVFILAMVDEDKKNRNFNDGKVDPAAGRYFAGTMAEETAPAVLERHQGSLYSLFPDHSVK KYFDQVDISNGLDWSLDHKIFYYIDSLSYTVDAFDYDLPTGQISNRRTVYKMEKDEQIPDGMCIDVEGKLWVAC YNGGRVIRLDPETGKRLQTVKLPVDKTTSCCFGGKDYSEMYVTCARDGMSAEGLLRQPDAGNIFKITGLGVK GIAPYSYAG
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

Gluconolactonase with low activity towards other sugar lactones, including gulonolactone and galactonolactone. Catalyzes a key step in ascorbic acid (vitamin C) biosynthesis. Can also hydrolyze diisopropyl phosphorofluoridate and phenylacetate (in vitro). Calcium-binding protein. Modulates Ca²⁺-signaling, and Ca²⁺-dependent cellular processes and enzyme activities.

References

"Senescence marker protein-30 is a unique enzyme that hydrolyzes diisopropyl phosphorofluoridate in the liver."Kondo Y., Ishigami A., Kubo S., Handa S., Gomi K., Hirokawa K., Kajiyama N., Chiba T., Shimokado K., Maruyama N.FEBS Lett. 570:57-62(2004)Research Topic:Others

Note: This product is for in vitro research use only