Recombinant Rat Regucalcin(Rgn)

Catalog No: #AP70714

Package Size: #AP70714-1 20ug #AP70714-2 100ug #AP70714-3 1mg

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Rat Regucalcin(Rgn)
Host Species	E.coli
Purification	Greater than 85% 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 Smp30
Accession No.	Q03336
Calculated MW	51.9 kDa
Tag Info	N-terminal 10xHis-SUMO-tagged
Target Sequence	MSSIKIECVLRENYRCGESPVWEEASKCLLFVDIPSKTVCRWDSISNRVQRVGVDAPVSSVALRQSGGYVATI GTKFCALNWEDQSVFILAMVDEDKKNNRFNDGKVDPAGRYFAGTMAEETAPAVLERHQGSLYSLFPDHSVK 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 functions as gluconolactonase in L-ascorbic acid biosynthesis, and its knockout mice are prone to scurvy."
Kondo Y., Inai Y., Sato Y., Handa S., Kubo S., Shimokado K., Goto S., Nishikimi M., Maruyama N., Ishigami A.
Proc. Natl. Acad. Sci. U.S.A. 103:5723-5728(2006)Research Topic:Signal Transduction

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