Recombinant Rat Beta-hexosaminidase subunit alpha (Hexa)

Product Code	CSB-MP727047RA
Abbreviation	Hexa
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.
Uniprot No.	Q641X3
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	PL GKNILMVSVV TAECNEFPNL ESVENYTLTI NDDQCLLSSE TVWGALRGLE TFSQLVWKSA EGTFFINKTK ITDFPRFPHR GILLDTSRHY LPLSSILNTL DVMAYNKFNV FHWHLVDDSS FPYESFTFPE LTRKGSFNPV THIYTAQDVK EVIEYARLRG IRVLAEFDTP GHTLSWGAGV PGLLTPCYSG SRLSGTYGPV NPSLNSTYDF MSTFFLEISS VFPDFYLHLG GDEVDFTCWK SNPNIQAFMK KKGFTDYKQL ESFYIQTLLD IVSDYDKGYV VWQEVFDNKV KVRPDTIIQV WREEMPVQYM KEIEAITQAG FRALLSAPWY LNRVKYGPDW KEMYKVEPLA FRGTPAQKAL VIGGEACMWG EYVDSTNLVP RLWPRAGAIA ERLWSSNLTT NMDFAFKRLS HFRCELLRRG IQAQPISVGY CEQEFEHT
Source	Mammalian cell
Target Names	Hexa
Protein Names	Recommended name: Beta-hexosaminidase subunit alpha EC= 3.2.1.52 Alternative name(s): Beta-N-acetylhexosaminidase subunit alpha Short name= Hexosaminidase subunit A N-acetyl-beta-glucosaminidase subunit alpha
Expression Region	89-528
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes the alpha subunit of the lysosomal enzyme beta-hexosaminidase that, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Beta-hexosaminidase is composed of two subunits, alpha and beta, which are encoded by separate genes. Both beta-hexosaminidase alpha and beta subunits are members of family 20 of glycosyl hydrolases. Mutations in the alpha or beta subunit genes lead to an accumulation of GM2 ganglioside in neurons and neurodegenerative disorders

	termed the GM2 gangliosidoses. Alpha subunit gene mutations lead to Tay-Sachs disease (GM2-gangliosidosis type I).
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	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.