

Recombinant Mouse Exostosin-Like 2/EXTL2 Protein (His Tag)

Catalog No. PKSM041014

Description

Synonyms	Exostosin-like 2; Extl2; Alpha-1;4-N-acetylhexosaminyltransferase EXTL2; Alpha-GalNAcT EXTL2; EXT-related protein 2; Glucuronyl-galactosyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase
Species	Mouse
Expression_host	Human Cells
Sequence	Asn43-Met330
Accession	Q9ES89
Mol_Mass	33.6 kDa
AP_Mol_Mass	35 kDa
Tag	N-6His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Exostosin-like 2 (EXTL2) is a member of the exostosin (EXT)-related family which contains five members: EXT1, EXT2, EXTL1, EXTL2, and EXTL3. Studies have shown that EXT gene family members have the activities of heparan sulfate-synthesizing glycosyltransferases. EXT1 and EXT2, which have been identified as causal genes for hereditary multiple exostoses, have HS-GlcAT-II and GlcNAcT-II activities. EXTL1 has GlcNAcT-II activity and EXTL3 has GlcNAcT-I and -II activities. EXTL2 has GlcNAcT-I and N-acetylgalactosaminyltransferase activities, and transfers a GlcNAc residue to the tetrasaccharide linkage region when this region is phosphorylated by a xylose kinase 1 (FAM20B) and thereby terminate chain elongation. In mice, lack of EXTL2 causes glycosaminoglycan (GAG) overproduction and structural changes of GAGs associated with pathological processes.

SDS-PAGE

