

Recombinant Human STBD1, His-tagged

Cat. No. STBD1-198H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human Starch-Binding Domain-Containing Protein 1/STBD1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Arg24-His358) of Human STBD1 fused with a polyhistidine tag at the C-terminus.

Species Human

Source HEK293

Description Starch-Binding Domain-Containing Protein 1 (STBD1) is a single-pass type III membrane protein. It is predicted to contain a hydrophobic N terminus and a C-terminal CBM20 glycan binding domain. Genethonin-1 is highly expressed in skeletal and cardiac muscle, but it is not expressed in the pancreas, kidney and lung. STBD1 may have the capability to bind to carbohydrates. It is shown that STBD1 is involved in glycogen metabolism by binding to glycogen and anchoring it to membranes, thereby affecting its cellular localization and its intracellular trafficking to lysosomes.

AA Sequence RGGPGDTGKDGDAEQEKDAPLGGAIPGGHQSGSSGLSPGPSGQELVTKPEHLQE
SNGHLISKTK DLGKLQAASWRLQNPSREVCDNSREHVPSGQFPDTEAPATSETSN
SRSYSEVSRNESLESPMGEW GFQKGQEISAKAATCFAEKLPSNLLKNRAKEEMS
LSDLNSQDRVDHEEWEMVPRHSSWGDVGVG GSLKAPVLNLNQGMDNGRSTLVE
ARGQQVHGKMERVAVMPAGSQQVSVRFQVHYVTSTDVQFIAV TGDHECLGRWNT
YIPLHYNKDGFWSHSIFLPADTVVEWKFLVLENGGVTRWEECSNRFLETGHED KVV
HAWWGIHVDHHHHHH

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
GENE INFORMATION	
Gene Name	STBD1 starch binding domain 1 [Homo sapiens]
Official Symbol	STBD1
Synonyms	STBD1; starch binding domain 1; starch-binding domain-containing protein 1; FLJ41801; genethonin 1; GENX 3414; GENEX3414; GENX-3414;
Gene ID	8987
mRNA Refseq	NM_003943
Protein Refseq	NP_003934
MIM	607406
UniProt ID	O95210
Chromosome Location	4q21.1
Pathway	Diurnally regulated genes with circadian orthologs, organism-specific biosystem;
Function	carbohydrate binding; protein binding; starch binding;