

Recombinant Mouse SO1B2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51927

Size: 10ug, 100ug

Protein Name: Solute carrier organic anion transporter family member 1B2 (Liver-specific organic anion transporter 1) (LST-1) (SLC21A6) (Solute carrier family 21 member 10)

Synonym: Slco1b2, Oatp1b2, Slc21a10

UniProt ID: Q9JJL3

UniProt Link: www.uniprot.org/uniprotkb/Q9JJL3/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 689 AA

Molecular Weight: 77 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDQTQHPSKAAQPLRSEKTRHCDGFRIFLAALSFSYICKALGGVIMKSSITQIERRFDIPSSISGLIDGG
FEIGNLLVIVFVSFYFGSKLHRPKLIGTGCFIMGIGSILTALPHFFMGYYRYATENDISSLHNSTLTCLVN
QTTSLTGTSPEIMEKGCEKGSNSYTWIYVLMGNMLRGIGETPIVPLGVSYIDDFAKEGNSSMYLGT
TIAMIGPILGFIMSSVFAKLYVDVGYVDLRSVRITPQDARWVGAWWLGFI VNGLLCIICSIPFFFLPKIPK
RSQKERKNSASLHVLKTDDEKNPVTNPTTQEKQAPANLTGFLWSLRSILTNEQYVIFLILTLLQISSFIG
SFTYLFKFIEQQFGQTASQANFLLGVITPTMASGMFLGGYLIKRLKLTLLGITKFVFFTTTMMAYVFYLS
YFLLICENKAFAGLTLYDGMNPVD SHIDVPLSYCNSDCICDKNQWEPVCGENGVTYISPCLAGCKS
FRGDKKLMNIEFYDCSCVSGSGFQKGNHSARLGECPRDKCKTKYYFYITFQVIISFFTALGSTSLMLIL
IRSVQPELKS LGMGFHS LVVRTLGGILAPVYYGALIDRTCMKWSVTSCGARGACRLYNSRLFGMIYV
GLSIALKTPILLLYVALIYVMKRKMKRNDNKILENGRKFTDEGNPEPVNNNGYSCVPSDEKNSETPL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Solute carrier organic anion transporter family member 1B2 (Liver-specific organic anion transporter 1) (LST-1) (SLC21A6) (Solute carrier family 21 member 10) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Mediates the Na(+)-independent uptake of organic anions such as taurocholate, bromosulfophthalein and steroid conjugates (estrone 3-sulfate, 17-beta-glucuronosyl estradiol, dehydroepiandrosterone sulfate). Also transports prostaglandin E2 and L-thyroxine (T4). Shows a pH-sensitive substrate specificity which may be ascribed to the protonation state of the binding site and leads to a stimulation of substrate transport in an acidic microenvironment. Hydrogencarbonate/HCO₃⁽⁻⁾ acts as the probable counteranion that exchanges for organic anions.

Subcellular Localization: Cell membrane; Multi-pass membrane protein.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.