

SLC16A2 Protein, Human (Sf9, His, MBP, FLAG)

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| Cat. No.: | HY-P702021 |
| Synonyms: | SLC16A2; Monocarboxylate transporter 8; MCT 8; Monocarboxylate transporter 7; MCT 7; Solute carrier family 16 member 2; X-linked PEST-containing transporter |
| Species: | Human |
| Source: | Sf9 insect cells |
| Accession: | P36021 (A2-I539) |
| Gene ID: | 6567 |
| Molecular Weight: | |

PROPERTIES

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| Appearance | Solution. |
| Endotoxin Level | <1 EU/μg, determined by LAL method. |
| Reconstitution | Please use rapid thawing with running water to thaw the protein. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

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| Background | SLC16A2, a specific thyroid hormone transmembrane transporter, plays a pivotal role in facilitating the uptake and efflux of thyroid hormones across the cell membrane, operating independently of pH or a Na(+) gradient. With a notable preference for substrates such as the iodothyronines T3 and T4, and to a lesser extent rT3 and 3,3-diiodothyronine (3,3'-T2), SLC16A2 emerges as a key mediator of thyroid hormone transport. Its significance is particularly pronounced in the transport of T3, notably through the blood-brain barrier, emphasizing its crucial role in enabling the entry of thyroid hormones into the brain. The transporter's ability to translocate thyroid hormones underscores its importance in regulating the cellular availability of these essential molecules, highlighting its impact on thyroid hormone homeostasis and its potential therapeutic relevance in various physiological contexts. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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