

## SLC44A1 Protein, Human (Sf9, His, MBP, FLAG)

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|-------------------|---|
| Cat. No.:         | HY-P702042  |
| Synonyms:         | SLC44A1; Choline transporter-like protein 1; CDw92; Solute carrier family 44 member 1; CD92 |
| Species:          | Human   |
| Source:           | Sf9 insect cells  |
| Accession:        | Q8WWI5 (G2-A657)  |
| Gene ID:          | 23446   |
| Molecular Weight: |   |

### PROPERTIES

|                     |  |
|---------------------|--|
| 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 | SLC44A1 protein functions as a choline/H <sup>+</sup> antiporter, playing a pivotal role in the regulation of cellular choline transport as documented in various studies. Additionally, it acts as a high-affinity ethanolamine/H <sup>+</sup> antiporter, thereby controlling the supply of extracellular ethanolamine for the CDP-Etn pathway. This dual functionality allows SLC44A1 to actively redistribute intracellular ethanolamine, maintaining a balance between the CDP-Cho and CDP-Etn arms of the Kennedy pathway. The involvement of SLC44A1 in these processes is crucial for membrane synthesis and myelin production, highlighting its significance in fundamental cellular functions and suggesting potential implications for membrane homeostasis and neural development. |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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