

## SLC19A1 Protein, Human, Recombinant (His & Myc)

### General Information

Synonyms:	FLOT1;Intestinal folate carrier 1 (IFC-1);Solute carrier family 19 member 1 (hSLC19A1); Reduced folate carrier protein (RFC;hRFC);Folate:anion antiporter SLC19A1;FOLT;Reduced folate transporter;RFC1;Cyclic dinucleotide:anion antiporter SLC19A1;Reduced folate transporter 1 (RFT-1);Placental folate transporter;SLC19A1
Protein Construction:	420-591 aa
Species:	Human
Expression Host:	E. coli
Accession:	P41440
Molecular Weight:	25.5 kDa (predicted)
AA Sequence:	DVRGLGLPVRKQFQLYSVYFLILSIIYFLGAMLDGLRHCRGHHPRQPPAQGLRSAAEEKAAQALSVQDKGL GGLQPAQSPPLSPEDSLGAVGPASLEQRQSDPYLAQAPAPQAAEFLSPVTTTPSPCTLCQAQASGPEAADETC PQLAVHPPGVSKLGLQCLPSDGVQNVNQ

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

## A DRUG SCREENING EXPERT

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Transporter that mediates the import of reduced folates and a subset of cyclic dinucleotides. Has high affinity for N5-methyltetrahydrofolate, the predominant circulating form of folate. Also able to mediate the import of antifolate drug methotrexate. Acts as an importer of immunoreactive cyclic dinucleotides, such as cyclic GMP-AMP (2'-3'-cGAMP), an immune messenger produced in response to DNA virus in the cytosol, and its linkage isomer 3'-3'-cGAMP. Mechanistically, acts as an antiporter, which export of intracellular organic anions to facilitate uptake of its substrates. 5-amino-4-imidazolecarboxamide riboside (AICAR), when phosphorylated to AICAR monophosphate, can serve as an organic anion for antiporter activity.

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