

## SUSD4 Protein, Human, Recombinant (mFc)

### General Information

Synonyms:	sushi domain containing 4;PRO222
Protein Construction:	A DNA sequence encoding the human SUSD4 (Q5VX71-3) (Met1-Phe290) was fused with Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Phe 42
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q5VX71-3
Molecular Weight:	53.8 kDa (predicted); 67 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. 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:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

SUSD4, also known as sushi domain-containing protein 4, is a hypothetical cell surface protein whose tissue distribution and function are completely unknown. SUSD4 is detectable in murine brains, eyes, spinal cords, and testis but not other tissues. In brains, SUSD4 is highly expressed in the white matter on oligodendrocytes/axons, and in eyes, it is exclusively expressed on the photoreceptor outer segments. In in vitro complement assays, SUSD4 augments the alternative but not the classical pathway of complement activation at the C3 convertase step. SUSD4

deficiency may cause autism or Fryns syndrome, both of which are genetic diseases with severe abnormal neurological development and/or functions.

### Reference

Kimura K. et al., 2006, Genome Res. 16 (1): 55-65.

Davila S. et al., 2010, Genes Immun. 11 (3): 232-8.

Tu Z. et al., 2010, Am J Pathol. 176 (5): 2378-84.

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