

GLT25D2 Protein, Human (sf9, His)

Cat. No.:	HY-P76954
Synonyms:	Procollagen galactosyltransferase 2; ColGalT 2; COLGALT2; C1orf17; KIAA0584
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8IYK4 (M1-S622)
Gene ID:	23127
Molecular Weight:	Approximately 68 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The GLT25D2 Protein functions as a beta-galactosyltransferase, specifically catalyzing the transfer of beta-galactose to hydroxylysine residues within collagen. This enzymatic activity plays a crucial role in the post-translational modification of collagen, contributing to the structural diversity and functional properties of this essential extracellular matrix protein. By facilitating the glycosylation of hydroxylysine, GLT25D2 participates in the modulation of collagen's biochemical and biomechanical characteristics. Understanding the role of GLT25D2 enhances our comprehension of collagen modification pathways, with potential implications in tissue development, maintenance, and repair. Further exploration of GLT25D2's function holds promise for advancing our knowledge of collagen biology and may contribute to the development of therapeutic strategies targeting collagen-related disorders.
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Caution: Product has not been fully validated for medical applications. For research use only.

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