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# Recombinant Rat B7-H4 protein (rFc Tag)



Catalog Number: Eg3230

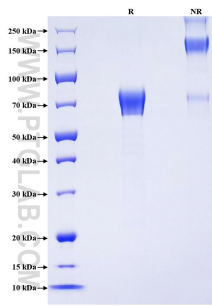
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/μg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Rat B7-H4 protein Phe29-Gly257 (Accession# Q501W4) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 295322</p> <p><b>Accession:</b> Q501W4</p> <p><b>Predicted Molecular Mass:</b> 51.5 kDa</p> <p><b>SDS-PAGE:</b> 65-90 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>B7-H4, also known as V-set domain containing T cell activation inhibitor 1 (VTCN1/B7x/B7 homolog4/B7S1), belongs to the coinhibitory B7 family ligands. B7-H4 is a type I transmembrane protein and is thought to be an immune checkpoint molecule in the context of tumor immunity. B7-H4 is nominally expressed in normal tissues yet is highly expressed in many types of cancer, including breast cancer, cholangiocarcinoma, endometrial carcinoma, non-small cell and squamous cell lung carcinoma, and ovarian carcinoma. High B7-H4 expression often correlates with shorter cancer patient survival.</p>		
References	<ol style="list-style-type: none"><li>1. Song X, et al. (2020) Cancer Discov. 10(12):1872-1893.</li><li>2. Kinneer K, et al. (2023) Clin Cancer Res. 29(6):1086-1101.</li><li>3. Toader D, et al. (2023) Mol Cancer Ther. 22(9):999-1012.</li><li>4. Yu J, et al. (2024) Cell. 187(17):4713-4732.e19.</li></ol>		
Synonyms	B7H4, B7S1, B7x, V-set domain-containing T-cell activation inhibitor 1, Vtcn1		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Rat B7-H4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.