

B7-H4 Protein, Human (Biotinylated, HEK293, His)

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| Cat. No.: | HY-P77541 |
| Synonyms: | V-set domain containing T-cell activation inhibitor 1; VTCN1; Protein B7S1; B7-H4 |
| Species: | Human |
| Source: | HEK293 |
| Accession: | Q7Z7D3 (F29-A258) |
| Gene ID: | 79679 |
| Molecular Weight: | Approximately 26.8 kDa. |

PROPERTIES

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| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μ m filtered solution of PBS, 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

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| Background | B7-H4 protein functions as a negative regulator of the T-cell-mediated immune response, exerting inhibitory effects on T-cell activation, proliferation, cytokine production, and the development of cytotoxicity. Particularly significant when expressed on the cell surface of tumor macrophages, B7-H4, in collaboration with regulatory T-cells (Treg), plays a crucial role in suppressing tumor-associated antigen-specific T-cell immunity. Additionally, B7-H4 is implicated in the promotion of epithelial cell transformation, indicating its multifaceted involvement in modulating immune responses and cellular processes associated with tumor development. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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