

TROP-2 Protein, Human (248a.a, HEK293, His)

Cat. No.:	HY-P70457
Synonyms:	Tumor-associated calcium signal transducer 2; Membrane component chromosome 1 surface marker 1; Cell surface glycoprotein Trop-2; TACSTD2; TROP2
Species:	Human
Source:	HEK293
Accession:	P09758 (H27-T274)
Gene ID:	4070
Molecular Weight:	38-55 kDa

PROPERTIES

AA Sequence	<p>HTAAQDNCTC PTNKMTVCSP DGGGRCQCR ALGSGMAVDC</p> <p>STLTSKCLLL KARMSAPKNA RTLVRPSEHA LVDNDGLYDP</p> <p>DCDPEGRFKA RQCNQTSVCW CVNSVGVRRT DKGDLSLRCD</p> <p>ELVRTHHILI DLRHRPTAGA FNHSDLDAEL RRLFRERYRL</p> <p>HPKFVA AVHY EQPTIQIELR QNTSQKAAGD VDIGDAAYYF</p> <p>ERDIKGESLF QGRGGLDLRV RGEPLQVERT LIYYLDEIPP</p> <p>KFSMKRLT</p>
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When 5×10^4 cells/well are added to Recombinant Human TROP-2 coated plates (10 $\mu\text{g}/\text{mL}$ with 100 $\mu\text{L}/\text{well}$), 27.55% cells will adhere after 1 hour incubation.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 TROP-2 protein emerges as a potential growth factor receptor, suggesting its involvement in cellular processes related
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to growth and signaling. As a putative receptor, TROP-2 may play a crucial role in transducing signals that regulate cell growth, proliferation, and potentially other cellular functions. The specific ligands and downstream pathways associated with TROP-2-mediated growth factor signaling remain areas for further investigation. Unraveling the detailed molecular mechanisms and functional implications of TROP-2 in growth factor signaling will contribute to a comprehensive understanding of its role in cellular physiology and may open avenues for therapeutic interventions targeting this receptor.

Caution: Product has not been fully validated for medical applications. For research use only.

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