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	H T A A Q D N C T C P T N K M T V C S P D G P G G R C Q C R A L G S G M A V D C S T L T S K C L L L K A R M S A P K N A R T L V R P S E H A L V D N D G L Y D P D C D P E G R F K A R Q C N Q T S V C W C V N S V G V R R T D K G D L S L R C D E L V R T H H I L I D L R H R P T A G A F N H S D L D A E L R R L F R E R Y R L H P K F V A A V H Y E Q P T I Q I E L R Q N T S Q K A A G D V D I G D A A Y Y F E R D I K G E S L F Q G R G G L D L R V R G E P L Q V E R T L I Y Y L D E I P P K F S M K R L T
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When $5x10^4$ cells/well are added to Recombinant Human TROP-2 coated plates (10 μg/mL with 100 μL/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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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

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.

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