B7-H6 Protein, Human (HEK293, His)

Cat. No.:	HY-P7631
Synonyms:	rHuB7-H6, His; B7 homolog 6; B7-H6; NCR3LG1; Natural cytotoxicity triggering receptor 3 ligand 1
Species:	Human
Source:	HEK293
Accession:	Q68D85 (D25-S262)
Gene ID:	374383
Molecular Weight:	40-60 kDa

PROPERTIES

AA Sequence	D L K V E M M A G G T Q I T P L N D N V T I F C N I F Y S Q P L N I T S M G I T W F W K S L T F D K E V K V F E F F G D H Q E A F R P G A I V S P W R L K S G D A S L R L P G I Q L E E A G E Y R C E V V V T P L K A Q G T V Q L E V V A S P A S R L L L D Q V G M K E N E D K Y M C E S S G F Y P E A I N I T W E K Q T Q K F P H P I E I S E D V I T G P T I K N M D G T F N V T S C L K L N S S Q E D P G T V Y Q C V V R H A S L H T P L R S N F T L T A A R H S L S E T E K T D N F S H H H H H H
Biological Activity	Immobilized recombinant Human B7 Homolog 6, His (HEK293-expressed) (rHuB7-H6, His) at 2μg/ml (100 μL/ well) can bind NCR3-Fc. The ED50 of recombinant Human B7 Homolog 6, His (HEK293-expressed) (rHuB7-H6, His) is 6.40 ug/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH7.4.
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	B7 homolog 6 (B7-H6), a novel member of the B7 family, was identified on tumor cell surfaces in 2009[1]. B7 homolog 6 (B7-H6) has been identified as involved in tumorigenesis. B7-H6 induces cellular cytotoxicity, secretion of TNF-α and IFN-γ and

B7-H6-specific BiTE triggers T cells to accelerate tumorigenesis. B7-H6 induces abnormal immunological progression by HER2-scFv mediated ADCC and NKp30 immune escape to promote tumorigenesis. B7-H6 promotes tumorigenesis via apoptosis inhibition, proliferation and immunological progression. B7-H6 may a valuable potentialbiomarker and therapeutic strategy for diagnostics, prognostics and treatment in cancer[2].

REFERENCES

[1]. Jing Sun, et al. Clinical significance of novel costimulatory molecule B7-H6 in human breast cancer. Oncol Lett. 2017 Aug;14(2):2405-2409.

[2]. Yuxuan Hu, et al. Immunological role and underlying mechanisms of B7-H6 in tumorigenesis. Clin Chim Acta. 2020 Mar;502:191-198.

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