

CAMK1 delta Protein, Human (GST)

Cat. No.:	HY-P7715
Synonyms:	rHuCAMK1D, N-GST; Calcium/calmodulin-dependent protein kinase type 1D; CaMKI-like protein kinase; CAMK1D;
Species:	Human
Source:	E. coli
Accession:	Q8IU85 (M1-K385)
Gene ID:	57118
Molecular Weight:	60-70 kDa

PROPERTIES

AA Sequence

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M S P I L G Y W K I   K G L V Q P T R L L   L E Y L E E K Y E E   H L Y E R D E G D K
W R N K K F E L G L   E F P N L P Y Y I D   G D V K L T Q S M A   I I R Y I A D K H N
M L G G C P K E R A   E I S M L E G A V L   D I R Y G V S R I A   Y S K D F E T L K V
D F L S K L P E M L   K M F E D R L C H K   T Y L N G D H V T H   P D F M L Y D A L D
V V L Y M D P M C L   D A F P K L V C F K   K R I E A I P Q I D   K Y L K S S K Y I A
W P L Q G W Q A T F   G G G D H P P K M A   R E N G E S S S S W   K K Q A E D I K K I
F E F K E T L G T G   A F S E V V L A E E   K A T G K L F A V K   C I P K K A L K G K
E S S I E N E I A V   L R K I K H E N I V   A L E D I Y E S P N   H L Y L V M Q L V S
G G E L F D R I V E   K G F Y T E K D A S   T L I R Q V L D A V   Y Y L H R M G I V H
R D L K P E N L L Y   Y S Q D E E S K I M   I S D F G L S K M E   G K G D V M S T A C
G T P G Y V A P E V   L A Q K P Y S K A V   D C W S I G V I A Y   I L L C G Y P P F Y
D E N D S K L F E Q   I L K A E Y E F D S   P Y W D D I S D S A   K D F I R N L M E K
D P N K R Y T C E Q   A A R H P W I A G D   T A L N K N I H E S   V S A Q I R K N F A
K S K W R Q A F N A   T A V V R H M R K L   H L G S S L D S S N   A S V S S S L S L A
S Q K D C L A P S T   L C S F I S S S S G   V S G V G A E R R P   R P T T V T A V H S
G S K
  
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Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM PB, 150mM NaCl, pH 7.4
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

Calcium/calmodulin-dependent protein kinase 1D (CAMK1D) is coexpressed with PD-L1 in anti-PD-L1/PD-1 treatment-refractory cancer types and correlated with poor prognosis in these tumors. CAMK1D is activated by CTL through Fas-receptor stimulation, which leads to CAMK1D binding to and phosphorylating caspase-3, -6, and -7, inhibiting their activation and function^[1].

REFERENCES

[1]. Valentina Volpin, et al. CAMK1D Triggers Immune Resistance of Human Tumor Cells Refractory to Anti-PD-L1 Treatment. *Cancer Immunol Res.* 2020 Sep;8(9):1163-1179.

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

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