

## CD40 Protein, Canine (P.pastoris, His)

Cat. No.:	HY-P75410
Synonyms:	Tumor Necrosis Factor Receptor Superfamily member 5; Bp50; CD40L Receptor; CDw40; TNFRSF5
Species:	Canine
Source:	P. pastoris
Accession:	Q7YRL5 (E21-A194)
Gene ID:	403469
Molecular Weight:	Approximately 20.4 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ 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/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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

Background	CD40 Protein acts as the receptor for TNFSF5/CD40LG, transducing signals mediated by TRAF6 and MAP3K8 to activate ERK in macrophages and B cells, ultimately inducing immunoglobulin secretion. Existing as both a monomer and homodimer, CD40 Protein interacts with various TRAF proteins, including TRAF1, TRAF2, TRAF3, TRAF5, and TRAF6. Furthermore, its interaction with TRAF6 and MAP3K8 is essential for the activation of ERK.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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