

## Product datasheet for **AR09019PU-N**

### CD26 / DPP4 (39-766, His-tag) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	CD26 / DPP4 (39-766, His-tag) human recombinant protein, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	Hi-5 insect
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	86.4 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% by SDS PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl pH 8.0, 100 mM NaCl, 1 mM EDTA, 10% glycerol
<b>Bioactivity:</b>	Biological: Approximately > 50 Unit/mg. One unit will hydrolyze 1 micromole of p-nitroaniline per minute at pH 8.0 at 37°C using 1mM of Gly-Pro p-nitroanilide as a substrate. <u>Assay procedure and results:</u> - Reaction buffer: 20mM Tris pH 8.0, 0.1M NaCl, 1mM EDTA - Total reaction volume: 100 ul - Reaction temperature: 37°C 1. Add the reaction buffer to each well 2. Add the 10 ul of 10 mM substrate (Gly-Pro p-nitroanilide) to each well 3. Add the enzyme (DPP-4) diluent to each well 4. Incubate the 96 well plate at 37°C. 5. Read the optical density at 405 nm. (see "Pictures" below)
<b>Endotoxin:</b>	< 1.0 EU per 1 microgram of protein (determined by LAL method)
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human DPP4 protein was expressed with c-terminal His-tag in high-5 cells using baculovirus expression system and purified by using conventional chromatography techniques.



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<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001926</a>
<b>Locus ID:</b>	1803
<b>UniProt ID:</b>	<a href="#">P27487</a>
<b>Cytogenetics:</b>	2q24.2
<b>Synonyms:</b>	ADABP; ADCP2; CD26; DPPIV; TP103
<b>Summary:</b>	The DPP4 gene encodes dipeptidyl peptidase 4, which is identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. It is an intrinsic type II transmembrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Dipeptidyl peptidase 4 is highly involved in glucose and insulin metabolism, as well as in immune regulation. This protein was shown to be a functional receptor for Middle East respiratory syndrome coronavirus (MERS-CoV), and protein modeling suggests that it may play a similar role with SARS-CoV-2, the virus responsible for COVID-19. [provided by RefSeq, Apr 2020]
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein, Transmembrane

**Product images:**