

**PTGR1, 1-329aa , Human, His tag, E.coli,**

**Cat.NO.: TP03589**

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3th Edition

**Synonyms:** prostaglandin reductase 1, LTB4DH, PGR1, ZADH3.

**Description:** PTGR1, also known as LTB4DH, belongs to the NADP-dependent oxidoreductase L4BD family. This enzyme catalyzes the conversion of leukotriene B4 into its biologically less active metabolite, 12-oxo-leukotriene B4. This is an initial and key step of metabolic inactivation of leukotriene B4. It is highly expressed in the kidney, liver, and intestine but not in leukocytes.

**Form:** Liquid. In 20 mM Tris-HCl buffer, pH7.5, 10% glycerol, 1mM DTT, 200mM NaCl

**Molecular Weight:** 38.6kDa (354aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSEFMVVRTKTWTLKKHFVGYPTNSDFELKTAELPPLKNGEVLLLEALFLTVDPYM  
RVAARKLKEGDTMMGQQVAKVVESKNVALPKGTIVLASPGWTTTHSISDGKDLEKLLTEWPDTIPLSLALGTVGMPG  
LTAYFGLLEICGVKGETVMVNAAGAVGSVVGQIAKLGCKVVGAVGSDEKVAYLQKLGFDVVFNYKTVESLEET  
LKKASPDGYDCYFDNVGGEFSNTVIGQMKKFGRIAICGAISTYNRTGPLPPGPPPEIVYQELRMEAFVVYRWQGDA  
RQKALKDLLKVVLEGGKIYKEYIIEGFENMPAAFMGMLKGDNLGKTIVKA

**Purity:** > 95% by HPLC

**Concentration:** 0.5mg/ml

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.