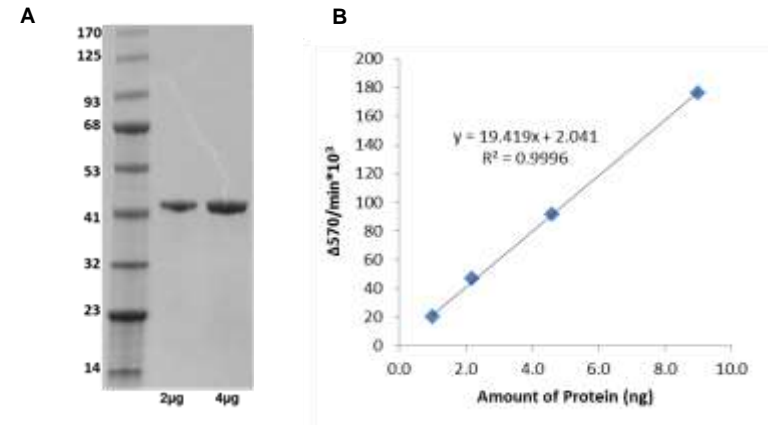


***B. subtilis* Recombinant Oxalate oxidase (OxOx)**

CATALOG NO:	P1091-20	20 µg
	P1091-100	100 µg
ALTERNATE NAMES:	OxO, OxOx, OxO_r	
SOURCE:	<i>E. coli</i>	
SEQUENCE	Refer to <i>B. subtilis</i> oxalate decarboxylase. Oxalate oxidase is derived from oxalate decarboxylase by introducing three mutations: S161D, E162A, and N163S	
PURITY:	≥90% by SDS-PAGE	
MOL. WEIGHT:	43.6 kDa, His-tagged	
FORM:	Freeze-dried from proprietary buffer	
STORAGE:	Store at -20°C. Stable for at least 2 years as supplied.	
RECONSTITUTION:	Reconstitute to 2 mg/mL in sterile water, store at -80°C in aliquots and use within 6 months after reconstitution. Avoid repeated freeze-thaw cycles.	
DESCRIPTION:	Oxalate oxidase is a member of the cupin superfamily. It catalyzes the breakdown of oxalate to hydrogen peroxide and carbon dioxide. Oxalate oxidase and oxalate decarboxylase are two similar enzymes that share similar structural and sequence identity. Both enzymes use oxalate as substrate and manganese ions as cofactors. BioVision's oxalate oxidase is derived from <i>B. subtilis</i> oxalate decarboxylase by introducing three mutations: S161D, E162A and N163S in the active-site loop.	
SPECIFIC ACTIVITY:	The enzyme has a specific activity of ≥ 230 mU/mg based on measuring the production of H ₂ O ₂ from the following reaction: (COOH)₂ (Oxalate) + O₂ → 2CO₂ + H₂O₂	
UNIT DEFINITION:	One unit is the amount of enzyme that converts 1 µmole of oxalate to CO ₂ and H ₂ O ₂ per minute at pH 4.5 and 25°C.	

**RELATED PRODUCT:**

- Oxalate Decarboxylase, Active Bacterial Recombinant (**Cat. No. 7262-20, -100, -1000**)
- Oxalate Decarboxylase Activity Colorimetric Assay Kit (**Cat. No. K664-100**)
- Oxalate (Oxalic Acid) Colorimetric Assay Kit (**Cat. No. K663-100**)

FOR RESEARCH USE ONLY! Not to be used on humans.