

Active Recombinant Fumarase (FUM)

Cat. No. FUM-01 Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Fumarase (FUM), expressed in E. coli.
Source	E. coli
Description	Fumarase (Fumarate Hydratase, FUM) catalyzes the reversible hydration of fumarate to L-malate. It is a key enzyme in the TCA cycle. The active recombinant enzyme is expressed in E. coli.
Form	White Lyophilized powder
Bio-activity	Specific activity: $\geq 300\text{U/mg}$ protein (380U/mg protein). Activity: $\geq 10\text{U/mg}$ solid (28U/mg solid).
Purity	$\geq 90\%$ (95%)
Storage	Store at $2-8^{\circ}\text{C}$. Stable for at least 1 year.
EC	4.2.1.2
CAS	9032-88-6
Unit definition	One unit will convert $1.0\text{ }\mu\text{mole}$ of L-malate to fumarate per min at pH 7.6 at 25°C .

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