

D-xylonolactone Lactonase (CvXylC)

Product Information

Cat#	DIA-685
Descriptions	D-xylonolactone lactonase (CvXylC) from <i>Caulobacter vibrioides</i> specifically hydrolyzes D-xylonolactone to D-xylonic acid, is a key enzyme in the xylose oxidative metabolic pathway, and supports microbial cell factory construction for biobased organic acid production.
Applications	D-xylonolactone lactonase (CvXylC) is used for xylonic acid biosynthesis detection kits and pentose metabolism pathway assay reagent development.
CAS No.	31-1-110
Enzyme Commission Number	EC 3.1.1.110
Enzyme Source	E.coli recombinant CvXylC from <i>Caulobacter vibrioides</i> .
Reaction	D-xylono-1, 5-lactone + H ₂ O = D-xylonate + H ⁺
Activity Definition	One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of D-xylonate from D-xylono-1,5-lactone at 37°C.