Creative Enzymes®

# Recombinant Drosophila melanogaster Deoxynucleoside kinase

*Cat. No. EXWM-2975*

*Lot. No.* (See product label)

## Introduction

***Description*** The deoxynucleoside kinase NK12 is a mesophilic enzyme originating from Drosophila melanogaster. It phosphorylates deoxynucleosides to dNMPs using (d)ATP as phosphate donor. The enzyme differs from other 2'-deoxyribonucleoside kinases [EC 2.7.1.76 (2'-deoxyadenosine kinase) and EC 2.7.1.113 (deoxyguanosine kinase)] in its broad specificity for all four common deoxynucleosides. The quasi-irreversible transfer of phosphate from the high energy donor to the nucleoside enables high NMP yields.

## Product Information

| | |
|---|---|
| ***Species*** | Drosophila melanogaster |
| ***Source*** | E.coli |
| ***Form*** | Liquid |
| ***EC Number*** | EC 2.7.1.145 |
| ***CAS No.*** | 52227-81-3 |
| ***Molecular Weight*** | 30.5 kDa |
| ***Activity*** | Not detected |
| ***Reaction*** | ATP + a 2'-deoxyribonucleoside = ADP + a 2'-deoxyribonucleoside 5'-phosphate |
| ***Notes*** | This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications. |

## Storage and Shipping Information

***Storage*** Store at -20°C