|  |  |  |  |
| --- | --- | --- | --- |
|  | LigL | LigN | LigD |
| Substrate | GGE | GGE | GGE |
| Direction | oxidation | oxidation | oxidation |
| Kcat (1/sec) | 0.12 | 0.30 | 0.2 |
| Km (M) | 5.5e-4 | 7.9e-5 | 7.3e-5 |
|  |

GGE oxidation

G-diketone reduction



|  |  |  |  |
| --- | --- | --- | --- |
|  | LigL | LigN | LigD |
| Kcat (1/sec) | 1.44 | 0.1 | 0.02 |
| Km (M) | 3.4e-3 | 3.1e-4 | 4.1e-4 |
|  |

Threo-GD oxidation

|  |  |  |  |
| --- | --- | --- | --- |
|  | LigL | LigN | LigD |
| Kcat (1/sec) | 0.03 | NA | NA |
| Km (M) | 1.53e-3 | NA | NA |
|  |

