**Table 2. Steady-state kinetic parameters of the apurinic/apyrimidinic (AP) endonuclease, 3'-repair diesterase and nucleotide incision repair (NIR) activities of the Nfo proteins obtained from different preparations**

| | **Enzymes** | | | | | |
|---|---|---|---|---|---|---|
| | **Nfo*** | | | **Nfo**** | | |
| **Substrate** | $K_M$**, nMb** | $k_{cat}$**, min$^{-1}$** | $k_{cat}/K_M$, min$^{-1}\cdot\mu$M$^{-1}$ | $K_M$, nMb | $k_{cat}$, min$^{-1}$ | $k_{cat}/K_M$, min$^{-1}\cdot\mu$M$^{-1}$ |
| αA•T | **24 ± 2.1** | **14 ± 0.3** | **580** | **38 ± 5.1** | **0.85 ± 0.1** | **20** |
| THF•T | **16 ± 2.0** | **9.3 ± 1.2** | **580** | 2.0 ± 0.5 | 5.4 ± 1.1 | 2,700 |
| 3'THF$^{NICK}$ | ND | ND | ND | 7.7 ± 1.9 | 2.8 ± 0.16 | 360 |
| αT•A | **7.5 ± 3.0** | **11.0 ± 0.2** | **1,500** | **42 ± 6.2** | **4.8 ± 0.8** | **110** |
| THF•A | **3.8 ± 0.8** | **4.5 ± 0.2** | **1,200** | **8.0 ± 1.0** | **18 ± 2.2** | **2,200** |
| DHU•G | 41 ± 4.1 | 4.6 ± 0.2 | 110 | **74 ± 7** | **0.24 ± 0.02** | **3.2** |
| DHT•A | 13 ± 2.0 | 2.0 ± 0.1 | 150 | **38 ± 8** | **0.25 ± 0.01** | **6.6** |
| 5ohU•G | 71 ± 11.0 | 0.9 ± 0.06 | 13 | **316 ± 44** | **1.6 ± 0.08** | **5.1** |
| me-Fapy•C | 290 ± 50 | 2.2 ± 0.1 | 7.6 | **250 ± 70** | **0.95 ± 0.1** | **3.8** |
| THF•G | 23 ± 1.8 | 21 ± 0.8 | 910 | **1.3 ± 0.2** | **1.7 ± 0.1** | **1,300** |
| (30 mer) | | | | | | |

Nfo* and Nfo** were purified as described in refs. 1 and 2. Kinetic constants values in bold have been published previously (2, 3). αA, α-2′-deoxyadenosine; αT, α-thymidine; THF, tetrahydrofuran; DHU, 5,6-dihydrodeoxyuridine; DHT, 5,6-dihydrothymidine; 5ohU, 5-hydroxy-2′-deoxyuridine; me-Fapy, 2,6-diamino-4-hydroxy-5-*N*-methylformamidopyrimidine.

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