**Table S1. ATRA concentration (ng/g) in murine skin after two weeks topical treatment with retinoid receptor-selective agonists or antagonists.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Agonists** | | | | **Antagonists** | | | |
|  | **acetone** | **RARα1** | **RARγ2** | **ATRA3** | **RXR4** | **RARα5** | **RARγ6** | **RAR7** | **RXR8** |
| All-*trans* retinoic acid | 2.5 ± 0.4 | 1.1 ± 0.4\* | 1.8 ± 1.1 | 5001 ± 1127# | 25 ± 9.4\* | 14 ± 4.2\* | 4.3 ± 1.7 | 5.6 ± 1.6 | 4.6 ± 2 |

1 BMS753; 2 BMS961; 3 all-*trans* retinoic acid; 4 LG268; 5 BMS614; 6 UVI2041; 7 BMS493; 8 UVI3003

Concentrations were determined in skin specimens of topically treated mice (n≥5) by HPLC MS-MS and were calculated as ng/g skin. Data are indicated as mean ± SEM.

Statistical significance (*p*) was tested using Student’s *t*-test. \**p*<0.05, #*p*<0.005, versus control (acetone)